Translation

PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PH-1782-PCT		R FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
International application No. PCT/JP2003/010293	International filing date (day/month) 13 August 2003 (13.08.200			
International Patent Classification (IPC) or national classification and IPC F02D 41/04, F01N 3/24				
Applicant HITACHI, LTD.				
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of				
3. This report contains indications relating to the following items: I Basis of the report II Priority III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV Lack of unity of invention V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI Certain documents cited VII Certain defects in the international application VIII Certain observations on the international application				
Date of submission of the demand Date of completion of this report		pletion of this report		
13 August 2003 (13.08.	2003)	17 May 2004 (17.05.2004)		
Name and mailing address of the IPEA/JP	Authorized o	fficer		
Facsimile No.	Telephone N	бо.		



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/010293

I. Basis of the report				
1. With regard to the elements of the international application:*				
	\boxtimes	the international application as originally filed		
		the description:		
		pages, as originally filed		
		pages, filed with the demand		
		pages, filed with the letter of		
		the claims:		
		pages, as originally filed		
		pages, as amended (together with any statement under Article 19		
		pages, filed with the demand		
		pages, filed with the letter of		
		the drawings:		
		pages, as originally filed		
		pages, filed with the demand		
		pages, filed with the letter of		
		the sequence listing part of the description:		
		pages, as originally filed		
		pages, filed with the demand		
		pages, filed with the letter of		
2.	the in	regard to the language, all the elements marked above were available or furnished to this Authority in the language in which international application was filed, unless otherwise indicated under this item. e elements were available or furnished to this Authority in the following language which is: the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).		
	H	the language of publication of the international application (under Rule 48.3(b)).		
	Ш	the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).		
3.	With	regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international minary examination was carried out on the basis of the sequence listing:		
	H	contained in the international application in written form.		
	H	filed together with the international application in computer readable form.		
	H	furnished subsequently to this Authority in written form.		
	H	furnished subsequently to this Authority in computer readable form.		
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.		
	Ш	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.		
4.		The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, Nos.		
		the drawings, sheets/fig		
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**		
	in th	scement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to is report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 0.17).		
		eplacement sheet containing such amendments must be referred to under item 1 and annexed to this report.		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

Claims

International application No.

PCT/JP03/10293

NO

v. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;		
citations and explanations supporting such statement		
1. Statement		

Novelty (N) Claims YES 4-10 Claims NO 1-3 Inventive step (IS) Claims YES 5-10 Claims 1-4 NO Industrial applicability (IA) Claims YES 1-10

2. Citations and explanations

Document 1: JP, 11-141388, A (Robert Bosch GmbH.), 25 May, 1999, page 2, right column, line 40 to page 3, left column, line 7; page 3, right column, line 37 to page 5, left column, line 10; page 5, left column, lines 11-14 & DE, 1973956, A

Document 2: JP, 10-220267, A (Toyota Motor Corp.), 18 August, 1998, Full text; all drawings (Family: none)

Because the inventions described in claims 1-3 are described in document 1 cited in the ISR (page 2, right column, line 40 to page 3, left column, line 7; page 3, right column, line 37 to page 5, left column, line 10; page 5, left column, lines 11-14), they do not appear to be novel or to involve an inventive step.

Because the invention described in claim 4 is described in document 1 cited in the ISR (page 2, right column, line 40 to page 3, left column, line 7; page 3, right column, line 37 to page 5, left column, line 10; page 5, left column, lines 11-14), it does not appear to involve an inventive step. As can be seen in the description in document 2, conducting homogenous stoichiometric combustion in an internal combustion engine controller comprising a three-way catalyst is a well-known art.

The inventions relating to claims 5-10 are not described in any of the documents cited in the ISR; nor are they obvious to a party skilled in the art.